

"Express Mail" Mailing Label No. ER 451350925 US

Date of Deposit: March 25, 2004

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above, with sufficient postage affixed and is addressed to Mail Stop PATENT APPLICATION, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Name: Rene Campos

Signature: *Rene Campos*

Patent

Attorney Docket No. 27823-20001.20

**REAGENTLESS, REUSABLE BIOELECTRONIC DETECTORS AND THEIR
USE AS AUTHENTICATION DEVICES**

Reference to Related Application:

[0001] This application is related to and claims the benefit of United States Provisional Application Serial No. 60/457,762 filed on March 25, 2003 and United States Application Serial No. 10/678,760 filed on October 3, 2003.

Reference to Government Support:

[0002] This invention was made in part with government support under grants from the National Science Foundation (Grant No. NSF-DMR-0099843), the Office of Naval Research (Grant No. ONR N0014-1-1-0239) and the National Institute of Health (Grant No. GM 62958-01).

BACKGROUND OF THE INVENTION

Field of the Invention

[0003] This invention relates to bioelectronic sensors and their use to detect hybridization events occurring in DNA, RNA, acids, PNA and other oligonucleotide systems. In a preferred embodiment the detection of such hybridization events is used to detect and verify an oligonucleotide authentication tag.

025.1112.1